Exercise 1.

BWT - compressing \( L \)

- Let \( R \) be the \( MTF \) encoding of \( L \) and \( Y \) the corresponding list of characters. Give an algorithm in pseudocode to decode \( R \) into \( L \)

Exercise 2.

BWT - compressing \( pos \)

- Present an example that proves the following assumption stated in the script:
  If we mark every \( \eta \)-th row in the matrix \( M \) the worst case time of a \( pos \) query is \( O\left(\frac{\eta-1}{\eta}n\right)\)